

Section I: BACT Determinations
Application No.: 183205
Equipment Category - Spray Booth

1. GENERAL INFORMATION		DATE: 5/25/1999
A. MANUFACTURER: Tellkamp Systems Inc.		
B. TYPE: Dry filter	C. MODEL: 2 @ 10810, 2 @ 12810	
D. STYLE: Floor		
E. APPLICABLE AQMD REGULATION XI RULES: 1107 & 1171		
F. COST: \$750,000 () SOURCE OF COST DATA:		
G. OPERATING SCHEDULE: 16 HRS/DAY 5 DAYS/WK 52 WKS/YR		
2. EQUIPMENT INFORMATION		APP. NO.: 183205
A. SIZE/DIMENSION/CAPACITY: 1 - 8' W. x 10' L. x 10' H 2 - 8' W. x 10' L. x 10' H 3 - 8' W. x 12' L. x 10' H 4 - 8' W. x 12' L. x 10' H		
B. BLOWERS: 1 - 1 @ 15 HP 2 - 1 @ 15 HP 3 - 1 @ 2 HP 4 - 1 @ 2 HP	C. TOTAL FLOW RATE: 16135 scfm	
D. FILTERS: 1 - 1 @ 4' W. x 400 yd L. (continuous roll-up type) 2 - same as 1 3 - 2 @ 4" W. x 9' L. 4 - same as 3		
E. PARTS COATED: Aluminum extrusions		
F. TYPE OF COATING/ADHESIVE/SOLVENT USED:		
3. COMPANY INFORMATION		APP. NO.: 183205
A. NAME: Frontier Aluminum		
B. ADDRESS: 2480 Railroad		
CITY: Corona	STATE: CA	ZIP: 91720
C. CONTACT PERSON: Al Olivarez	D. PHONE NO.: (909) 735-1770	
4. PERMIT INFORMATION		APP. NO.: 183205
A. AGENCY: SCAQMD		
B. AGENCY CONTACT PERSON: Rene Loof/AQ Engineer	C. PHONE NO.: (909) 396-2544	
D. PERMIT TO CONSTRUCT INFORMATION: P/C NO.: 183205-208 ISSUANCE DATE: 4/25/1989		
E. START-UP DATE: 1990 (P/Cs issued under separate applications for spray booths, but later		

consolidated all spray booths and RTO under on permit under A/N 183205)		
F. PERMIT TO OPERATE INFORMATION: P/O NO.: D64929 ISSUANCE DATE: 11/9/1992		
5. EMISSION INFORMATION		APP. NO.: 183205
A. PERMIT		
A1. PERMIT LIMIT: 68 lb VOC/day facility limit (after control)		
A2. BACT/LAER DETERMINATION: Thermal Oxidizer with a minimum overall control efficiency of 96% (required efficiency is conditioned on permit).		
B. CONTROL TECHNOLOGY		
B1. MANUFACTURER/SUPPLIER: Tellkamp Systems Inc.		
B2. TYPE: Regenerative Thermal Oxidizer		
B3. DESCRIPTION: A regenerative thermal oxidizer with two ceramic saddle beds vents four open, conveyorized spray booths, one flash-off tunnel and one bake oven. Non-compliant coatings are manually applied in two of the booths and automatically applied in the other two booths. The RTO has a 2.7 MM Btu/hr start-up burner, and 1.1 MM Btu/hr standby gas injection.		
B4. CONTROL EQUIPMENT PERMIT APPLICATION DATA: P/C NO.: 186800 ISSUANCE DATE: 9/28/1989 <div style="text-align: right; padding-right: 100px;">P/O NO.: D64929 ISSUANCE DATE: 11/9/1992</div>		
B5. WASTE AIR FLOW TO CONTROL EQUIPMENT: FLOW RATE: 16,135 cfm <div style="text-align: right; padding-right: 100px;">ACTUAL CONTAMINANT LOADING: BLOWER HP: HP</div>		
B6. WARRANTY: Not known		
B7. PRIMARY POLLUTANTS: VOC		
B8. SECONDARY POLLUTANTS: NOx 0.55 lb/hr, CO 0.01. lb/hr		
B9. SPACE REQUIREMENT: Not known		
B10. LIMITATIONS:		
B11. LOCATION OF PRIOR DEMONSTRATION & AGENCY: <div style="margin-left: 40px;">FACILITY: Not known</div> <div style="margin-left: 40px;">CONTACT PERSON: PHONE NO.:</div> <div style="margin-left: 40px;">AGENCY:</div> <div style="margin-left: 40px;">ADDRESS:</div> <div style="margin-left: 40px;">CONTACT PERSON: PHONE NO.:</div>		
B12. OPERATING HISTORY: Operating since 1990		
B13. SOURCE TEST/PERFORMANCE DATA ANALYSIS: <div style="margin-left: 40px;">DATE OF SOURCE TEST: 8/1/92 CAPTURE EFFICIENCY: 98.00%</div> <div style="margin-left: 40px;">DESTRUCTION EFFICIENCY: 98.10% OVERALL EFFICEINCY: 96.10%</div> <div style="margin-left: 40px;">PERFORMANCE DATA:</div>		
B14. SOURCE TEST CONDITIONS/PERFORMANCE DATA: <div style="margin-left: 40px;">Inlet Flow Rate to APC Device: 16,135 acfm; 13,501 scfm</div> <div style="margin-left: 40px;">VOC generated: 58.99 lbs/hr (as carbon)</div> <div style="margin-left: 40px;">VOC at inlet of APC Device: 63 lbs/hr (as carbon)</div> <div style="margin-left: 40px;">VOC at outlet of APC Device: 1.22 lbs/hr (as carbon)</div>		
C. COST		
C1. CONTROL EQUIPMENT COST: <input type="checkbox"/> CHECK IF INSTALLATION COST IS INCLUDED IN CAPITAL COST		

CAPITAL:	\$Not known	INSTALLATION:	\$Not Known ()	SOURCE OF COST DATA:
C2. ANNUAL OPERATIONAL/MAINTENANCE COST: \$ () SOURCE OF COST DATA:				

D. DEMONSTRATION OF COMPLIANCE

D1. STAFF PERFORMING FIELD EVALUATION:		
ENGINEER'S NAME:	Rene Loof	INSPECTOR'S NAME: Jeff Short DATE:
D2. COMPLIANCE DEMONSTRATION: See Source Test Information		
D3. VARIANCE:	NO. OF VARIANCES: 1	DATES:
CAUSES: Pre-filter bank to oxidizer caught fire; system breakdown; approximately 30 days needed to repair.		
D4. VIOLATION:	NO. OF VIOLATIONS: None	DATES:
CAUSES:		
D5. FREQUENCY OF MAINTENANCE:		

6. COMMENTS		APP. NO.: 183205